

84884

Formation of Polyamide Resins. XI. Synthesis S/079/60/030/010/026/030
of Polyamides by Interfacial Polycondensation B001/B066

course of the chain components showed that a ring $\text{OC} - \text{R} - \text{CO}$
 $\text{HN} - \text{R}_1 - \text{NH}$

is formed in addition to the polymer. Thus, low yields of polymers are primarily due to the fact that the reaction takes place in two directions under the formation of linear polymers and low-molecular, cyclic compounds. The structure of the initial components considerably affects the polyamide yield in interfacial polycondensation. The authors mention a paper by B. A. Poray-Koshits. There are 7 references: 4 Soviet, 1 French, 2 US, and 1 Japanese.

ASSOCIATION: Leningradskiy tekstil'nyy institut (Leningrad Textile Institute)

SUBMITTED: November 12, 1959

Card 3/3

SHPITAL'NYY, A.S., KHARIT, Ya.A., CHERNOMOEDIK, R.B., KULAKOVA, D.G.

Characteristics of the preparation of polyamides by means of
polycondensation at the interface. Zhur.prikl.khim. 33 no.5:
1150-1154 My '60. (MIRA 13:7)

1. Leningradskiy tekatil'nyy institut imeni S.M. Kirova.
(Polyamides)

SHPITAL'NYY, A.S.; KHARIT, Ya.A.; CHERNOMORDIK, R.B.; KULAKOVA, D.G.

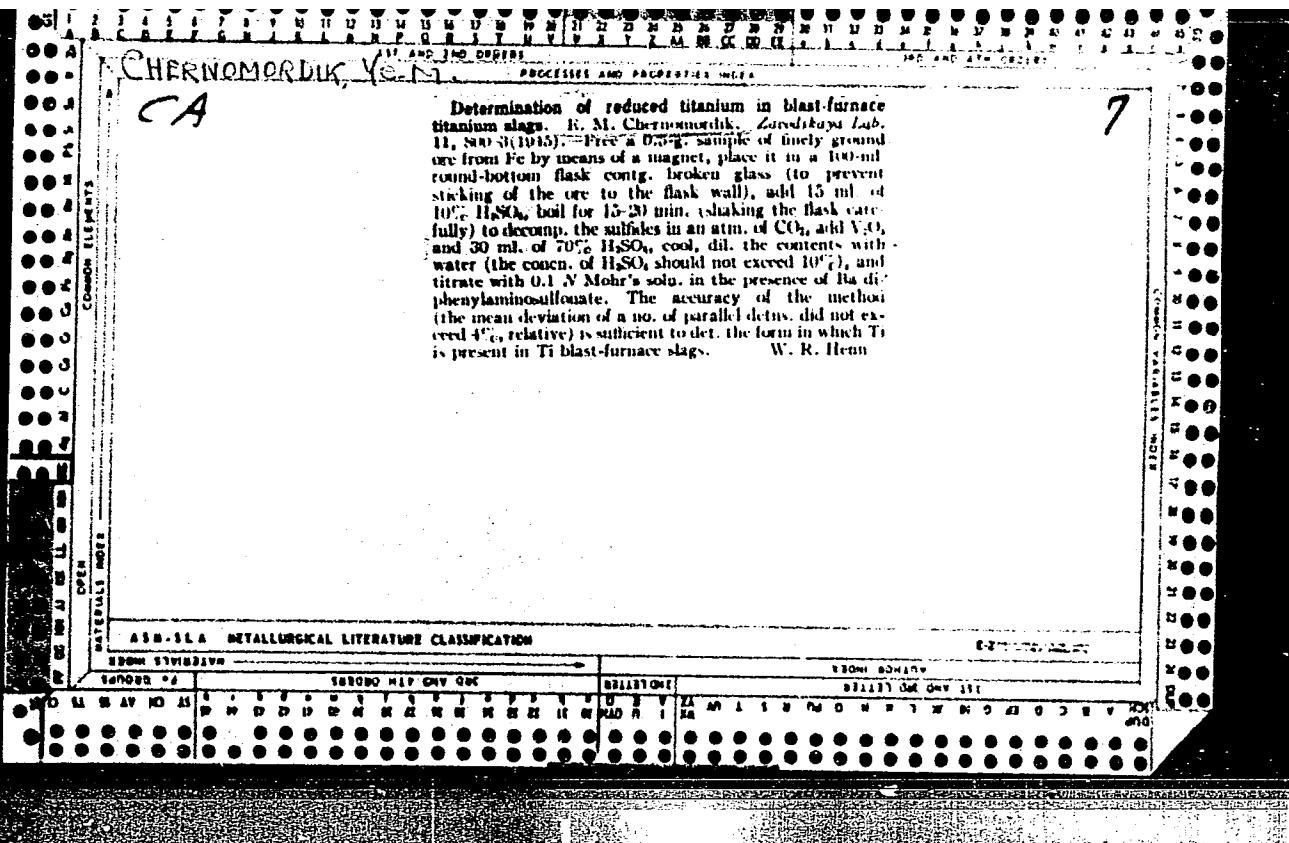
Process of polyamide resin formation. Part II: Synthesis of
polyamides by means of interfacial condensation. Zhur. ob. khim. 30
no.10:3430-3434 O '61. (MIRA 14:4)

1. Leningradskiy tekstil'nyy institut.
(Polyamides)

CHERNOGORODIK, R. M.; ALEKSEYEV, A. G.; BEL'FER, A. S.; VARUKHINA, A. A.; KUZINA, V. K.

"A Study of the Initial Manifestations of Coronary Insufficiency on the Basis of
Polyclinical Records."

Voyenno Meditsinskiy Zhurnal, No. 4, 1982.



CHERNOGORODIK, Ye.Ya.; MARKUS, G.A.

Use of blast-furnace gas for the decomposition of phenolates.
Koks i khim. no.2:64 '60. (MIRA 13:5)

1. Fenol'nyy zavod.
(Phenoxides)

S/068/63/000/002/002/003
E071/E133

AUTHOR: Chernomordik, Ye.Ya.

TITLE: Mastering of an experimental plant for the production of acenaphthylene from acenaphthene

PERIODICAL: Koks i khimiya, no.2, 1963, 43-44

TEXT: The results of operation of a pilot plant for the production of acenaphthylene from acenaphthene, designed by UKhIN, are outlined. The process is based on catalytic dehydrogenation of acenaphthene on K-5 catalyst at temperatures of 600-650 °C and in a vacuum of 10-15 mm Hg. Technical acenaphthene (temperature of crystallization 91 °C) is batch charged into a melter-evaporator where it is heated to 140-145 °C in a vacuum of 7-16 mm Hg. The acenaphthene vapors are passed into a reactor (externally heated cylindrical vessel of stainless steel) filled with the catalyst. The temperature of the catalyst is maintained at 600-650 °C in the middle part, and 400 °C at the bottom. Vapors of acenaphthylene leaving the reactor are cooled in receivers (externally cooled with water). The regeneration of the catalyst is done by blowing air at 400-450 °C.

Card 1/2

Mastering of an experimental ...

S/068/63/000/002/002/003
E071/E133

The best results were obtained under the following conditions: rate of feed 65 g/hour per litre of catalyst; duration of working cycle 27 hours; duration of catalyst regeneration 12 hours. Under these conditions the yield of acenaphthylene was about 80% of the acenaphthene treated, and the content of acenaphthylene in the product 97-98%. There is 1 figure.

ASSOCIATION: Fenol'nyy zavod
(Phenol Works)

Card 2/2

KORSHAK, V. V.; VINOGRADOVA, S. V.; TEPLYAKOV, M. M.;
CHERNOGORODIK, Yu. A.

Interaction between polyether and polyamide in a melt. Dokl.
AN SSSR 147 no. 6:1365-1368 D '62. (MIRA 16:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i
Moskovskiy khimiko-tehnologicheskiy institut im. D. I.
Mendeleyeva. 2. Chlen-korrespondent AN SSSR (for Korshak).

(Ethers) (Polyamides)

A. M. T. A. N. C. E. R. M. M.

Chemical reaction for gradin-

ation of polyisobutylene polymer

using catalyst I

Chemical reaction for poly-

merization of styrene, polysty-

rene and its derivatives, esterifi-

cation of styrene, is simple.

Reaction of styrene using catalyst

I gives polymers of type III, IV, an-

etc. The same reaction

can be carried out in

N. 11

Catalyst I

GANDIN, Boris Davydovich; FISHMAN, Lev Moiseyevich; MEDVEDEV, I.S.,
inzh., retsentent; FRENKEL', B.I., inzh., retsentent;
CHERNOGORIKOV, G.V., nauchn. red.; NIKITINA, M.I., red.;
CHISTYAKOVA, R.K., tekhn. red.; ERASTOVA, N.V., tekhn. red.

[Equipment and devices for repairing electrical machines] Os-
nastka i pribory dlja remonta elektricheskikh mashin. Lenin-
grad, Sudpromgiz, 1963. 223 p. (MIRA 16:10)
(Electric machinery--Maintenance and repair)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

CHERNOMORDIKOV, M.Z.

MUKHARINSKAYA, I.A.; CHERNOMORDIKOV, M.Z.

Consolidation of jointly exploited formations of the Kirmaki
series in the Bibi-Eybat field. Azerb.neft.khoz.35 no.12:1-4
D '56. (MIRA 10:3)
(Bibi-Eybat—Oil fields)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

CHERNOGORODIKOV, M.Z.

BAGBANLY, B.A.; DADAYEVA, B.A.; CHERNOGORODIKOV, M.Z.

Edge water drive in the Bibi-Eybat Supra-Kirmaki subseries, Azerb.
neft. khoz. 36 no.5:21-23 My '57. (MIRA 10:11)
(Baku--Oil field flooding)

MULIK-ASIANOV, L.S.; CHERNOMORDIKOV, M.Z.

Preparing data on well investigation by studying the curve of
bottom-hole repressure during unsteady flow. Azerb. neft. khoz.
37 no.1:21-23 Ja '58. (MIRA 11:6)
(Petroleum engineering)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

LANTSEVIT'SKAYA, S.L.; ARUTYUNOV, B.I.; CHERNOMORDIKOV, M.Z.

Increasing the effectiveness of water exclusion methods when using
oil-cement plugs. Azerb. neft. khoz. 37 11:35-37 N '58. (MIRA 12:3)
(Oil well cementing)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

MUSTAFAYEV, M.M.; CHERNOMORDIKOV, M.Z.; KAFAROV, S.A.; KOSTYSHEVA, A.V.

Intensive air injection into layer 5 of the Bibi-Eybat field.
Azerb.neft.khoz. 38 no.l:25-28 Ja '59. (MIRA 12:4)
(Apsheron Peninsula--Secondary recovery of oil)

CHERNOMORDIKOV, M. Z., Cand Geol-Min Sci -- (diss) "Rational pre-development of polystrata beds in the Kirmakinskaya formation from the example of the Bibieybatskiy deposit." Baku, 1960. 17 pp; (Academy of Sciences Azerbaydzhan SSR, Inst of Geology im Academician I. M. Gubkin); 100 copies; price not given; (KL, 17-60, 145)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

CHERNOGORODIKOV, M.Z.; TAGIYEV, G.M.

Possible objects for underground gas storage in the Apsheron Peninsula. Trudy AzNII DN no.9:233-242 '60. (MIRA 14:5)
(Apsheron Peninsula--Gas, Natural--Storage)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

ABASOV, M.T.; CHERNOMORDIKOV, M.Z.; AZIZOVA, F.M.

Possibility of using one network of wells for developing 7 and 7a
horizons in the Karadag field. Azerb. neft. khoz. 39 no.5:27-30
My '60. (MIRA 13:10)

(Karadag region--Oil fields--Production methods)

MUSTAFAYEV, M.M.; CHERNOMORDIKOV, M.Z.

Injection of gas at high pressures as means for stimulating oil
recovery from Kirmaki horizons in the Bibi-Myabut field of the
Oil Field Administration of the Stalin Petroleum Trust. Azerb.
neft. khoz. 39 no.7:29-31 J1 '60. (MIREA 13:10)
(Apsheron Peninsula--Oil fields--Production methods)

MUSTAFAYEV, M.M., kand. geologo-mineralog. nauk; CHERNOMORDIKOV, M.Z., red.;
RASHEVSKAYA, T.A., red.; BAGIROVA, S., tekhn. red.

[History of the development of the Bibi-Eybat Field] Iz istorii raz-
vitiia Bibieibatskogo neftianogo mestorozhdeniia. Baku, Azerbaid-
zhanskoe go's. izd-vo, 1961. 70 p.
(MIRA 14:8)
(Apsheron Peninsula—Oil fields—Production methods)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

BLANK, G.I.; CHERNOGORIKOV, M.Z.; MARTIROSOVA, E.A.

Petroleum recovery from horizons of the producing formation of
Azerbaijan. Azerb. neft. khoz. 40 no.6:21-25 Je '61. (MIRA 14:8)
(Azerbaijan--Oil fields--Production methods)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

PIERVERDYAN, A.M.; DURMISH'YAN, A.G.; CHERNOMORDIKOV, M.Z.

Developing gas-condensate fields of Azerbaijan. Azerb. neft. khoz
40 no.11:19-20 N '61. (MIRA 15:1)
(Azerbaijan--Condensate oil wells)

ABASOV, M.T.; BLANK, G.I.; KULIYEV, A.M.; CHERNOMORDIKOV, M.Z.

Principles of the development plan for seven horizons of the
Karadag gas-condensate oil field. Trudy Inst. razrab. neft. i
gaz. mestorozh. AN Azerb. SSR 1:62-88 '62. (MIRA 16:6)

(Karadag region—Condensate oil wells)

BABA-ZADE, B. K. [deceased]; BLANK, G. I.; SARKISYAN, B. M.;
CHERNOGORODIKOV, M. Z.

Simultaneous-stage exploitation is an important factor in the
increase of oil recovery and its cost reduction. Geol. nefti
i gaza 7 no.1:7-11 Ja '63. (MIRA 16:1)

1. Ob"yedineniye Azneft' i Azerbaydzhanskiy nauchno-issledo-
vatel'skiy institut po dobyche nefti.

(Oil fields—Production methods)

CHERNOGORIKOV, M.Z.; SHAPIRO, B.A.

Dependence of the final recovery factor on the quantity of
water withdrawn from a pool. Nefteprom. delo no.7:3-7 '64.
(MIRA 17:8)
1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut po
dobyche nefti.

ALIYEV, Sh.N.; CHERNOMORDIKOV, M.Z.; SHAPIRO, B.A.

Efficient profile for the filter section of a hole. Nefteprom.
delo no.4:12-15 '65. (MIRA 18:6)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobache
nefti.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

CHERNOGORIKOV, M.Z.; SHAPIRO, B.A.

Determining the optimal distances between wells in the development
of oil pools. Neft.khoz. 43 no.4:25-28 Ap '65.
(MIRA 18:4)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

MUSTAFAYEV, Mirza Mustafa; CHERNOMORDIKOV, N.Z., red.; SHTEYNGEL', A.S.,
red.izd-va

[Development of the Supra-Kirmaki arenaceous-argillaceous series of the
Bibi-Eybat field] Iz opyta razrabotki nadkirmakinskoi glinistoi i nad-
kirmakinskoi peschanoi svit mesttorozhdeniya Bibieibat. Baku, Azer-
baidzhanskoe gos. izd-vo neft. i nauchno-tekhn. lit-ry, 1960. 56 p.
(MIRA 14:11)

(Apsheron Peninsula--Oil fields—Production methods)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

CHERNOGORODIKOV, V.V.

Mbr., Ecology Laboratory, Moscow Zoo-Park, -1947-

"Diurnal Cycle of the Activity of Some Reptiles," Dok. AN, 57, No. 5, 1947

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

CHERNOGORODIKOV, V. V.

Chernomordikov, V. V. - "Ecological basis for maintaining reptiles in captivity,"
Trudy Mosk. zooparka, Vol. IV, 1949, p. 151-55, - Bibliog: 5 items

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

CHERNOGOROV, V. V.

"Significance of Temperature on the Vital Activity of Reptiles."
Sub 15 Jun 51, Moscow Order of Lenin State U imeni M. V. Lomonosov.
Cand. Biol. Sci.

Dissertations presented for science and engineering degrees in
Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

CHERNOGORODIKOV, V.V.

Conditioned inhibition in turtles. Trudy Inst.fiziol. no.2:479-489 '53.
(MLRA 7:5)

1. Laboratoriya srovnitel'noy fiziologii vysshey nervnoy deyatel'nosti
(zaveduyushchiy - L.G.Voronin). (Conditioned response)
(Turtles)
(Inhibition)

CHIRNOMORDYAKOV, V. V.

New method of production of conditioned reflexes in turtles. Fiziol.
zh. SSSR 39 no. 1:102-104 Jan-Feb 1953. (CIML 24:2)

1. Laboratory of the Comparative Physiology of Higher Nervous Activity
of the Institute of Physiology imeni I. P. Pavlov of the Academy of
Sciences USSR, Leningrad.

CHERNOGORODIKOV, V.V.

Physiology of the auditory analyzer in turtles [with summary in English]. Zhur.vys.nerv.deiat. 8 no.1:109-115 Ja-F '58. (MIRA 11:3)

1. Laboratoriya srovnitel'noy fiziologii vysshey nervnoy deyatel'nosti
Instituta fiziologii im. I.P.Pavlova AN SSSR.
(REFLEX, CONDITIONED,
auditory in turtles (Rus))

CHERNOGORODIKOV, V.V.; Prinimali uchastiye: BESPALOVA, I.; NAD'YARNAYA, N.;
TOKOREVA, T.; MAMATKINA, E.

Atmospheric humidity as an ecologico-physiological factor. Dokl.
AN SSSR 140 no.4:935-937 O '61. (MIRA 14:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
Predstavleno akademikom I.I. Shmal'gauzenom
(HUMIDITY--PHYSIOLOGICAL EFFECT)

CHERNOGORODIKOV, V.V.; NAD'YARNAYA, J.F.

Food protein as an ecologic and physiological factor. Biul.
MOIP.Otd.biol. 67 no.4:140-141 Jl-Ag '62. (MIRA 15:10)
(PROTEINS) (ANIMALS, FOOD HABITS OF)

11G71

CHERNOGORODIKOVA, E. D.

USSR/Infectious Diseases 5301.0400 Aug/Sep 1947
 Mental Disorders 5306.

Work Conducted by the Moscow City Psychiatric "Patronage" for Children Suffering from Respiratory Diseases during the Years of the Fatherland War, E. D. Chernomordikova, Scientific Methods Center for Child Psychotherapy (Chief Physician, Z. A. Osipova), 5 pp

"Sovetskoye Zdравоохранение" № 6

An account of a method of farming out children to homes where they were able to recuperate. The State repaid the homes taking in these children. In 1945 there were 500 people involved in this "Patronage".

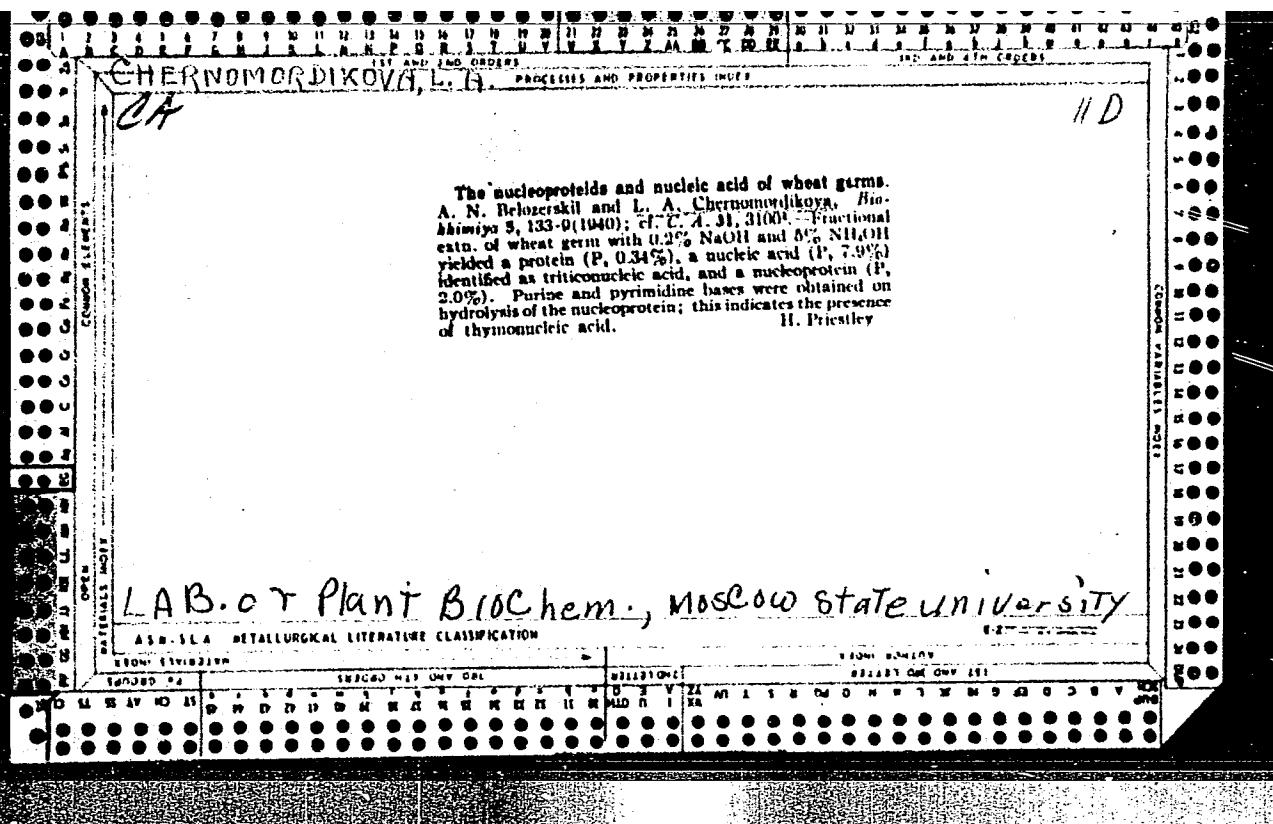
11G71

IC USSR/Infectious Diseases 5301.0400 Aug/Sep 1947
 (Contd)

Plan. This plan has been established mainly to take care of orphans and semi-orphans who otherwise would have no place wherein to recuperate.

11G71

IC



CHERNOMORDIKOVA, M.F.; CHERMENSKIY, Yu.V. (Leningrad, 129, 2-ya
Berezovaya alleya, d. 3, Institut onkologii AMN SSSR.)

Value of tomography in the diagnosis of bone tumors [with
summary in English] Vop. onk., 2 no.6:728-737 '56 (MLRA 10:4)

1. Iz rentgeno-radiologicheskogo otdeleniya (zav.-prof. L.M.
Gol'dshteyn) Instituta onkologii AMN SSSR (dir.-chl.-korr. AMN
SSSR, prof. A.I. Serebrov)

(BONES, neoplasms
diag., tomography)
(ROENTGENOGRAPHY, in various dis.
tomography in bone tumors)

CHERNOGORODIKOVA, M.E. (Leningrad, 53, B.O. 2 liniya, d.37, dv.13);
KHOKHLOVA, M.A. (Leningrad, 105, ul. Sevast'yanova, d.4, kv.47)

Data on clinical roentgenological diagnosis of costal sarcomas
[with summary in English]. Vop.onk. 4 no.1:73-80 '58. (MIRA 11:4)

1. Iz rentgenologicheskogo otdeleniya (zav. - prof. L.M.Gol'dshteyn)
Instituta onkologii AMN SSSR (dir. - deyatel'nyy chlen AMN SSSR
prof. A.I.Serebrov)

(RIBS, neoplasms,
sarcoma, diag. (Rus))
(SARCOMA, diagnosis,
ribs (Rus))

DYMARSKIY, L.Yu.; CHERNOMORDIKOVA, M.F.

Clinical and roentgenological characteristics of malignant tumors of the scapula and soft tissues of the scapular region.
Khirurgiia 35 no.3:71-75 Mr '59. (MIRA 12:8)

1. Iz 1-go khirurgicheskogo otdeleniya (zav. - chlen-korrespondent AMN SSSR prof. S.L.Kholdin) i rentgenologicheskogo otdeleniya (zav. - prof. L.M.Gol'dshteyn) Instituta onkologii AMN SSSR (dir. - deyствител'nyy chlen AMN SSSR prof. A.I.Serebrov):

(SHOULDER, neoplasms
of scapula & soft tissues of scapular region,
clin. & x-ray aspects (Rus))

CHERNOGORODIKOVA, M.F.

Importance of a tomographic study in the diagnosis of tumors
of the bones. Trudy Inst. onk. AMN SSSR no. 38127-14/7 '60
(MIRA 16:12)

1. Rentgenologicheskoye otdeleniye (zav. - prof. L.M.Gol'd-
shteyn) Instituta onkologii AMN SSSR.

CHERNOGORODIKOVA, M. F.

On the use of tomography in the roentgenodiagnosis of some bone diseases. Vop. klin. lech. zlok. novoobraz. 7:95-104 '61.

1. Rentgenologicheskoye otdeleniye (zav... prof. L. M. Gol'dshteyn)
Instituta onkologii AMN SSSR (dir... deystv. chl. AMN SSSR prof. A. I. Serebrov).

(BONE DISEASES radiog)

PETROV, Yu.V.; KANTIN, A.V., prof.; CHERNOMORDIKOVA, M.F.

Minutes of the Society of Oncologists of the City of Leningrad
and Leningrad Province for meeting No.78 on May 9, 1963. Vop.
onk. 9 no.11:119-122 '63. (MIRA 18:2)

KHOLDIN, S.A., prof.; CHERNOMORDIKOVA, M.F.

Minutes of the Scientific Society of Oncologists of the City of Leningrad and Leningrad Province for meeting No.80 on October 3, 1963. Vop. onk. 10 no.1:121-124 '64.

(MIRA 17:11)

KLEYNMAN, D.L.; CHERNOMORDIKOVA, M.F.

Method for the use of transosseous venography in the study of the
venous flow from transplanted tumors. Vop. onk. 10 no.10:81-87 '64.
(MIRA 18:8)

1. Iz rentgenologicheskogo otdeleniya (ispolnyayushchiy cbyazannosti
zav. otdelom - A.P.Lazareva) Instituta onkologii AMN SSSR (direktor
deysivitel'nyy chlen AMN SSSR prof. A.I.Serebrov). Adres avtorov:
Leningrad, Pesochnyy, 2, ul. Leningradskaya, 68, Institut onkologii
AMN SSSR.

RAKOV, A.I., prof.; CHERNOMORDIKOVA, M.F., kand.med.nauk

The 90th meeting of the Scientific Society of Oncologists of
Leningrad, and Leningrad region. Vop. onk. 11 no.4:118-120
'65. (MIRA 18:8)

I. Chlen-korrespondent AMN SSSR (for Rakov).

RAKOV, A.I., prof.; CHERNOMORDIKOVA, M.F., kand. med. nauk

Proceedings of the 97th Conference of the Scientific Society
of Oncologists of Leningrad and Leningrad Province, April 8,
1965. Vop. onk. 11 no.12:103-105 '65. (MIRA 19:1)

1. Chlen-korrespondent AMN SSSR (for Rakov).

PERVUKHIN, V.D., Inst.; CHERNOGORIN, F.I., Inv't.

Semiautomatic lines in lumbering enterprises. No. 1 avt. protiv.
18 no. 2:31-32 Ag '64. (MIRA 17:10)

AUTHORS:

Chernomordin, I. F.

Borin, P.A., Korol'kov, G.A., Chernomordin, I.P. 32-12-48/71

TITLE:

The Construction of a Heater for a High-Temperature Laboratory
Piston Furnace (Konstruktsiya nagrevateley dlya laboratornoy
vysokotemperaturnoy pechi kalbochnogo tipa).

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 12, pp. 1510-1511 (USSR)

ABSTRACT:

In this paper an improved type of the already previously recommended laboratory piston furnace is described. The improvement consists mainly in the fact that the heater is exchangeable. This heater is made from a tungsten-, molybdenum-, niobium-, or tantalum sheet, which forms a cylinder; deep incisions are made on one edge of this cylinder in such a manner that the points formed in this way, when bent towards the inside, form the bottom of the cylinder. This bottom is hemmed in between two molybdenum disks of about 2 mm thickness (from the interior of the cylinder as well as from the outside). A square molybdenum rod (average 15 x 15 mm), which rests upon a copper plate, is used as a support. By means of two molybdenum bolts the bottom of the cylinder (including the disks), the molybdenum block, and the copper plate which is connected with the carrier of the furnace, are firmly drawn together. The electric line

Card 1/2

The Construction of a Heater for a High-Temperature
Laboratory Piston Furnace

32-12-48/71

is here enclosed in a protective tube. In its upper part the heater is fastened to a rail by means of two pairs of clamps; the rail is vertical and parallel to the walls of the heater, and forms an arc at the top. By this rail the current is fed to the upper edge of the heater. Between the aforementioned pairs of clamps on this rail a molybdenum protective shell is, at the same time, fastened, which rests against the vertical parts of the arc. Another construction of the heater is suggested, which is, in principle, similar to that described above, with the only difference that in this case the cylindrical heater is replaced by a spiral made of the same material, which is fastened in a suitable manner. In this case the protective case has no incisions and is drawn over the arc in such a manner that it is fastened to the only pair of clamps which fastens the upper end of the heating spiral to the arc. There are 2 figures.

ASSOCIATION: Moscow Institute for Nonferrous Metals and Gold imeni M.I.Kalinin
(Moskovskiy institut tsvetnykh metalov i zolota im.M.I.Kalinina).

AVAILABLE: Library of Congress

Card 2/2 . 1. Furnaces-Heater elements 2. Furnaces-Improvement

ATTACHED: Wladimirich, V. N.; Krapikov
V. N.; Krasnogorsk, T. P. G. I. P.

STATION: Moscow, Russia

PERIOD: 1950-1955

TYPE OF INFORMATION: COMMUNIST PARTY
ACTIVISTS AND LEADERS

NOTES: 1. This document contains information on several
persons who were members of the Communist Party - total
of 1000 persons. 2. Total length of file is 1000
meters. 3. File is in Russian. 4. File is in
good condition. 5. File is in good condition. 6.
File is in good condition. 7. File is in good condition.
8. File is in good condition. 9. File is in good condition.
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TIME: [unclear] AM
DATE: [unclear] 19[unclear]

ASSOCIATION: [unclear]

TYPE: [unclear]

REF ID: [unclear] REF P

L 22626-65 EWT(m)/EPR/EWP(t)/EWF(c) (IPAC) CC

ALL INFORMATION CONTAINED

HEREIN IS UNCLASSIFIED
DATE 8/27/01 BY SP/RS

FILE: THE USE OF CASCADES IN ZONE 2

TO: DR. R. W. HEDGES, JR., TESTER,
ATOMIC ENERGY COMMISSION

FROM: DR. R. W. HEDGES, JR., PHYSICIST,
STANFORD RESEARCH INSTITUTE, CASCADe 2

A cascade is a series of coupled
scintillation counters. It is
designed to measure the "basic
radiation" emitted by the nuclei.
The first stage, returning with
gamma photons, has a lower energy
and is scattered, and so the in-
falling particles are slow, and
have a longer time. An analog

Computer

3. CHINESE APPROVALS

copper and manganese. India
is negative about uranium, a
statement of opposition on
uranium imports by India and
Russia on the substitution of
uranium for the consumption of
copper and manganese.

COLONIZATION - United States

SOURCE - Japan

SUPERVISOR - MS

VIGDOROVICH, V.N.; CHERNOMORDIN, I.F.

Characteristics of the zone recrystallization of aluminum.
Izv. vys. ucheb. zav.; tsvet. met. 8 no.5:95-100 '65.
(MIRA 18:10)

1. Moskovskiy institut stali i splavov, kafedra proizvodstva
chistiykh metallov, metallicheskikh soyedineniy i poluprovodnikovykh
materialov i Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut redkometallicheskoy promyshlennosti, Moskva.

L 22626-65 EWT(e)/EPP/EWP(t)/EWV/

REVIEWED BY [redacted] 10/12/98
[redacted]

REVIEWED BY [redacted] 10/12/98

REVIEWED BY [redacted] 10/12/98
[redacted]

REVIEWED BY [redacted] 10/12/98

1.0000000000000000

Actual time required: 0.0000000000000000

Starting at 1.0000000000000000 the second
order of magnitude difference in
stage calculation was 0.0000000000000000.
The next significant digit was 0.0000000000000000.
The next significant digit was 0.0000000000000000.
 $1.55 - 1.74 \cdot 10^{-1}$ AND $1.67 - 1.74 \cdot 10^{-1}$
are close to each other. In general
Brent's algorithm will pass the
stability test if the ratio of the
absolute value of the first derivative
with a test value of stability of
order of classes will not increase
more than 1.0000000000000000. i.e.,
abs. max. ratio of 1.0000000000000000 and 2. tab

and switch: none

Switched: none

Actual time required:
0.0000000000000000

L 3645-65 EWT(m)/EPR**/ESP(b) Ps-4 MJW/JD

ACCESSION NO: 191044158

AUTHOR: Vyguzov, V. N.

TITLE: Effect of additions
aluminum purification of cr.

SOURCE: Fluka Metallurg Co.

TOPIC TAGS: zone melting, a
aluminum purification, alum

ABSTRACT: The effect of phosphorus on the purifications of iron, aluminum and silicon was investigated. An electric furnace and silicon, phosphorus, fluorine, or iodine were added to 100 g of 99.99% pure Mg with the aim of removing the impurities. After 10 passes the material showed that phosphorus removed 99.9% of iron and silicon but

CHERNOVORODIKOVA, M.F.

Materials on the clinico-roentgenological diagnosis and treatment
of tumors of the clavicle. Vop. onk. 6 no.4:43-52 Ap '60.

(CLAVICLE—TUMORS)

(MIRA 14:3)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

VIGDOROVICH, V. (Moskva); KRAPUKHIN, V.V. (Moskva); CHERNOMORDIN, I.F.; (Moskva)

Preparation of high purity aluminum by the zonal recrystallization method. Izv.AN SSSR.Otd.tekh.nauk.Met.i topl. no.4:99-105 J1-^{Ag}
'60. (MIRA 13:9)
(Aluminum) (Crystallization)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

CHERNO MORENKO, S. G.

USSR/ Physical Chemistry - Crystals

B-5

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 7296

Author : Vasil'yev, V.P. and Chernomorenko, S.G.

Title : On the Investigation of Self-Diffusion in Tungsten

Orig Pub : Zavod. labortoriya, 1956, Vol 22, No 6, 688-691

Abstract : A method has been developed for the determination of the diffusion coefficient permitting continuous measurements during diffusive annealing. The method is based on the measurement of the activity of a thick layer of the radioactive isotope which has been deposited on the sample. The diffusion of W¹⁸⁵ in W has been investigated at temperatures of 1560-1726°K. The thickness of the W¹⁸⁵ layer was 40-50 μ . It was found that $D_W = 6.3 \times 10^7 \exp(-135,800/RT) \text{ cm}^2 \text{ sec}^{-1}$. When the activation energy is known with an accuracy of 7 percent Q satisfies the theoretical equation $Q = RT(fus)$, where T(fus) for W is taken as 3,660°K.

Card 1/1

- 45 -

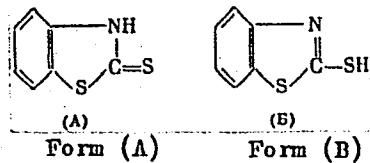
S/079/61/031/011/012/015
D202/D305

AUTHORS: Gur'yanova, Ye. N., Eytingon, I. I., Fel'dshteyn, M. S., Chernomorskaya, I. G., and Dogadkin, B. A.

TITLE: Investigation of the structure of some 2-mercapto benzthiazole derivatives by the method of dipole moments

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 2, 1961, 3709-3712

TEXT: The subject of this experimental work was to establish the cause of differences in the behavior of mercapto benzthiazole (MBT) derivatives as vulcanization accelerators. It is known that the thiazol group of MBT may have a twofold structure:



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S/079/61/031/011/012/015
D202/D305

Investigation of...

Therefore, derivative groups may be linked either with N or with S. In the authors' opinion, the best method of ascertaining to which tautomeric form a particular derivative belongs is to determine its dipole moment--as the dipole moment of the form (A) \approx 4.5 D, and that of form (B) \approx 2.2 D. The authors synthesized 12 MBT derivatives by adding the following groups: I - $N_{\text{H}}^{\text{H}}-\text{C}_6\text{H}_{11}$, II - $N(\text{C}_6\text{H}_{11})_2$, III - $N_{\text{H}}^{\text{H}}-\text{C}_6\text{H}_5$

IV - $N_{\text{CH}_3}^{\text{CH}_3}-\text{C}_6\text{H}_5$, V - $N-\text{C}_6\text{H}_4-\text{O}$, VI - CH_3 , VII - $\text{CH}_2-\text{N}-(\text{CH}_3)_2$,

VIII - $\text{CH}_2\text{N}(\text{CH}_2\text{H}_5)_2$, IX - $\text{CH}_2-\text{N}-\text{C}_6\text{H}_4-\text{O}$, X - CH_2OH ,

XI - $\text{CH}_2-\text{CH}_2\text{OH}$, XII - CH_2COOH ; and determined their dipole moments. They found that in compounds I - V, the dipole moments were in the range 1.73 - 3.01 D, these fluctuations being due to different dipole moments of the added amino groups. The compound VI has a small moment equal to

Card 2/4

S/079/81/031/011/012/015
D202/D305

Investigation of...

1.33 D; therefore, all these groups are linked with S, and the derivatives have the (B) structure. In compounds VII - X, the dipole moments were in the range 4.38 - 4.72 D; therefore, the addition groups are linked to N, and the compounds have the (A) structure. The authors do not discuss the accelerating properties of all derivatives and only point to the fact that X--a hydromethyl--and XI--a hydroethyl derivative--having quite different properties as accelerators have different dipole moments as well: X has 4.58 D and XI--2.33 D, the first being a N-linked derivative and second a S-linked one. Compound XII has a dipole moment of 4.44 D, but is of the (B) structure, its high moment being due to the carbonyl group. There are 1 table and 11 references: 7 Soviet-bloc and 4 non-Soviet-bloc. The references to the 4 most recent English-language publications read as follows: H. Koch, J. Chem. Soc. 401 (1949); T. Levi, U. S. Pat. 2,010,059, (1935); W. Sexton, A. Spinks, J. Chem. Soc. 1717, (1948); P. Oesper, G. Lewis, C. Smyth, J. Amer. Chem. Soc. 64, 1130, (1942). ✓

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti i fiziko-khimicheskiy institut im. L. Ya. Karpova (Scientific

Card 3/4

Investigation of...

S/079/61/031/011/012/013
D202/D305

Research Institute of the Tire Industry and Physico-Chemical Institute im. L. Ya. Karpov)

SUBMITTED: December 2, 1960

Card 4/4

15.9130

28949
S/138/61/000/010/004/009
A051/A129

AUTHORS: Fel'dshteyn, M.S., Chernomorskaya, I.G., Etingon, I.I., Gur'yanova, Ye.N., Dogadkin, B.A.

TITLE: Vulcanizing acitivity of certain derivatives of 2-mercaptopbenzothiazole and their ability to exchange with radioactive di-2-benzothiazyldisulfide

PERIODICAL: Kauchuk i rezina, no. 10, 1961, 15 - 18

TEXT: The characteristic features are given of the vulcanization activity of certain N-benzothiazole-2-thion and 2-thiobenzothiazole derivatives, according to the kinetics of sulfur addition and the change in maximum swelling. The data which characterize this activity indicate that the S substituted derivatives do not affect the rate of vulcanization (the graph), nor the effectiveness of the structuralizing process. The weak effect of vulcanization which is noted is thought to be connected with the presence of sulfur in the rubber mixture. N-benzothiazole-2-thion derivatives are effective accelerators of vulcanization. The results of the investigation into the reaction between N-benzothiazole-2-thion and 2-thiobenzothiazole derivatives on the one hand, and labelled S³⁵ in

Card 1/5

Vulcanizing activity ...

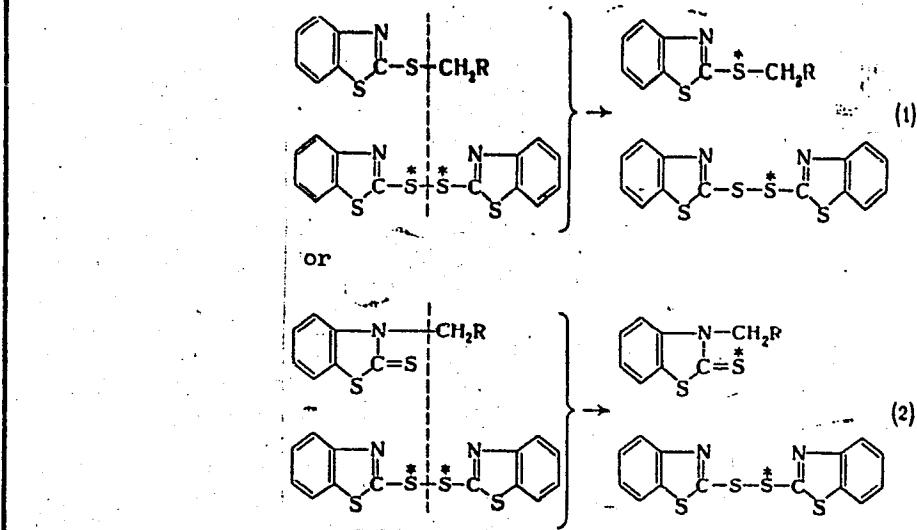
28949
S/138/61/000/010/004/009
A051/A129

di-2-benzothiazyldisulfide on the other hand are presented. The method of labelled atoms (S^{35}) is used to investigate the mobility of the thiobenzothiazolyl radicals in certain N-benzothiazole-2-thion derivatives and 2-thiobenzothiazole derivatives. The reaction scheme of exchange is given as follows:

Card 2/6

Vulcanizing activity ...

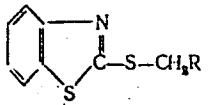
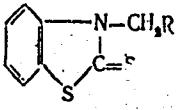
28949

S/138/61/000/010/004/009
A051/A129

Card 3/6

28949 S/138/61/000/010/004/009
Vulcanizing activity ... A051/A129

Experimental data showed that there is a direct link between the vulcanizing activity of the investigated compounds and their ability to exchange with the thiobenzothiazolyl radicals. The same elementary act - the formation of the thiobenzothiazolyl radicals - is the basis of both processes. The data of the vulcanizing activity and exchange ability are compared with the results of the structural investigation. It was established that the sharp differences in the vulcanizing activity of the investigated compounds are explained by a difference in their structure. The bond strength of N-CH₂R in the compounds of the type is less than the bond strength of S-CH₂R in compounds:



It is pointed out that amongst derivatives of 2-mercaptopbenzothiazole compounds characterized by the presence of the C-S-C grouping do not have an accelerating effect of the vulcanization process, whereas the corresponding sulfenamide C-S-N and disulfide C-S-S compounds are highly-active accelerators of vulcani-

Card 4/5

Vulcanizing activity ...

28949
8/138/61/000/010/004/009
A051/A129

zation. These reactions of exchange by the thiobenzothiazolyl radicals may thus be used in the synthesis of the corresponding accelerators of vulcanization labelled with radioactive sulfur. There are 3 tables, 1 graph and 5 Soviet-bloc references.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Scientific Research Institute of the Tire Industry)

Card 5/6

GUR'YANOVA, Ye.N.; EYTINGON, I.I.; FEL'DSHTEYN, M.S.; CHERNOGORSKAYA, I.G.;
DOGADKIN, B.A.

Structure of some derivatives of 2-mercaptopbenzothiazole studied by
the dipole moment method. Zhur. ob. khim. 31 no. 11:3709-3712 N '61.
(MIRA 14:11)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti i
Fiziko-khimicheskiy institut imeni L.Ya. Karpova.
(Benzothiazole--Dipole moments)

FEL'DSHTEYN, M.S.; CHERNOMORSKAYA, I.G.; GUR'YANOVA, Ye.N.;
EYTINGON, I.I.

Vulcanization activity of sulfenamide derivatives of 2-mercaptobenzothiazole and their capacity to thiobenzothiazolyl radical exchange with radioactive di-2-benzothiazyl disulfide. Zhur. prikl. khim. 34 no.9:2073-2079 S '61. (MIRA 14:9)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti i fiziko-khimicheskiiy institut imeni L.Ya. Karbova.
(Benzothiazole) (Vulcanization)
(Radicals (Chemistry))

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

CHERNOHORSKIY, G. A.

CHERNOHORSKIY, G. A. -- "DEVELOPMENT OF THE COMPOSITION AND TECHNOLOGICAL METHOD OF
PREPARATION OF PRESERVES." SUB 30 JUN 52, MOSCOW INST OF NATIONAL ECONOMY (MENI)
G. V. PLEKHANOV (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCE)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

CHERNOGORSKIY, G.A.

Canned feeds ensuring daily high-level nutritional requirements of man.
Kons. i. ov. prem., 12 no. 4:13-17 Ap '57. (MIRA 10:6)

1. Rosglavkenserv.
(Feed, Canned)

RUDZITSKIY, A.A.; RYBIN, N.S.; KRETININ, A.A.; CHERNOMORSKIY, G.A.;
spetsred.

[Automatic control of the process of drying on conveyer driers]
Avtomatizatsiya protsessa sushki na konveiernykh sushilkakh.
Moskva, Gos.nauchno-issl.in-t nauchn. i tekhn.informatsii, 1959.
9 p. (MIRA 13:6)
(Drying apparatus)

CHERNOGORSKIY, G. A.

Conference on the problems of manufacturing food products from
corn and potatoes. Kons.i ov.prom. 15 no.10:44 0 '60.
(MIRA 13:10)

(Food) — (Corn (Maize)) (Potatoes)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

CHERNOGORSKIY, Grigoriy Abramovich; AKOBZHANOV, V.M., red.; SELIVERSTOVA,
R.L., red. izd-va; KOZLENKOVA, Ye.I., tekhn. red.

[Technology of the production of fruit and berry juices and extracts]
Tekhnologija proizvodstva plodovo-iagodnykh sokov i ekstraktov. Mo-
skva, Izd-vo TSentrosciiza, 1961. 69 p. (MIRA 14:10)
(Fruit juices) (Berries)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

S/194/61/000/007/048/079
D201/D305

AUTHOR: Chernomorskiy, G.A.

TITLE: The effect of ultrasonics on the extraction of chlorophyll from leaves by a non-polar solvent

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1961, 15, abstract 7 E93 (Botan-zh., 1960, 45, no. 11, 1696-1697)

TEXT: The ultrasonic oscillations were being obtained from a IKW HF generator and a piezoelectric disc 50 mm dia. frequency 500 kc/s. Petroleum ether was used for the non-polar solvent. A flat-bottomed flask with disc-shaped pieces of leaves in the petroleum ether was put for ten minutes into a gusher of oil. After being subjected to ultrasound the leaves (70 - 200 mg) were ground in a porcelain mortar under a layer of petroleum ether. The solution was filtered out through a glass filter and a new portion of solvent added to the analyzed substance. The amount of chlorophyll was determined by

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S/194/61/000/007/048/079
D201/D305

The effect of ultrasonics...

means of the photo-electro calorimeter ФЕК-М (FEK-M). The data obtained from the experiments are compiled in a table from which it may be seen that from the point of view of extractability of chlorophyll by petroleum ether all analyzed forms of plants may be divided into 2 groups. In the first of them (13 forms of plants) after ultrasonic irradiation the petroleum ether extracts from 21.5 to 51% of chlorophyll, while from the control ones - from 0 to 7.5% only. In the second group (7 forms) the petroleum ether does not extract chlorophyll at all. 19 references. Abstracter's note: Complete translation

* Card 2/2

CHERNOMORSKIY, I.S.

AUTHOR: Chernomorskiy, I.S.

121-4-7/32

TITLE: The Cutting of Straight Spur Gears by Milling Cutters with Circular Grooves (Zubonarezaniye tsilindrcheskikh koles grebenchatymi frezami)

PERIODICAL: Stanki i Instrument, 1958, No.4, pp. 18 - 19 (USSR).

ABSTRACT: A process, developed by ENIMS, is described of cutting straight teeth in spur gears by a built-up milling cutter with circular grooves of a standard rack profile, is described. Since the cutter profile has no axial advance, the generating motion is the advance of the blank axis in parallel with the cutter axis, so co-ordinated with the blank rotation that a correct generating motion results. The length of the cutter must exceed the circumference of the blank. Three blanks can be in simultaneous contact with the cutter. A continuous cutting process can be achieved. A cutter design is illustrated wherein chaser-type profiled tool bits are attached radially to the sides of spline-shaped longitudinal flutes. In its simple form, the method produces teeth with concave flanks, owing to the absence of feed along the tooth (effectively plunge cut). The method is therefore usable only for cutting thin gears with large cutters. Cutting a 7 mm thick gear with a 250 mm diameter cutter, produces an arc depth of 8 μ . A method

Card1/2

121-4-7/32

The Cutting of Straight Spur Gears by Milling Cutters with Circular Grooves

of achieving exact quality of pitch of the cutter and the rack mechanism which performs the generating motion of the blank is discussed. Very favourable machining times can be achieved, e.g. 7.3 sec. for a gear of 54 teeth, 10 mm width and a module of 1.25 mm. The uniformity of cutting conditions at every cutter tooth is responsible for extreme tool lives, of the order of 20 000 blanks. There are 7 figures.

AVAILABLE: Library of Congress
Card 2/2 1. Gear cutting machines-Processes

CHERNOHORSKIY, I.S.

Using rack-shaped cutters with a reduced profile angel for
cutting involute tooth profiles. Stan. i instr. 31 no.2:
32-35 F '60. (MIRA 13:5)
(Gear cutting)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5

BURSHTEYN, I.Ye.; CHERNOMORSKIY, I.S.

Improving metal-cutting tools. Mashinostroyitel' no.8:40-46 Ag '61.
(MIRA 14:7)
(Metal-cutting tools)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308520017-5"

VLADIMIRSKIY, G.M.; CHERNOMORSKIY, M.A.

New data on the Paleozoic stratigraphy of the left bank of
the Khemchik River of western Tuva. Inform.sbor.VSEGEI no.21:
55-63 '59. (MIRA 14:12)
(Khemchik Valley—Geology, Stratigraphic)

VLADIMIRSKIY, G.M.; CHERNOMORSKIY, M.A.

Fold structures of Upper Cambrian (?) sediments on the left bank
of the Kemchik River in western Tuva. Trudy VSEGEI 58:33-41 '61.
(MIRA 15:5)

(Kemchik Valley--Folds (Geology))

CHERNOGORSKIY, M.A.

Methods for the study of the structures of metamorphic complexes.
Sov. geol. 7 no.9:125-127 S '64. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.

CHERNOVSKIY, M.A.

Division of Proterozoic metamorphic formations in the southern part
of the Altai-Sayan area. Dokl. AN SSSR 162 no.4:893-896 Je '65.
(MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.
Submitted January 12, 1965.

CHERNOGORSKIY, M.M., tekhnik

Small-size equipment for the automatic welding of pipe. Svar.
proizv. no.11:35-36 N '62. (MIRA 15:12)

1. Novosibirskiy nauchno-issledovatel'skiy elektrotekhnicheskiy
institut.
(Electric welding—Equipment and supplies) (Pipe—Welding)

SAPOZHNIKOV, D.I.; CHERNOMORSKIY, S.A.

Extractability of chlorophyll from leaves by a mixture of polar
and nonpolar solvents. Fiziol. rast. 7 no.6:660-664 '60.
(MIRA 14:1)

I. V. L. Komarov Botany Institute, U.S.S.R. Academy of Sciences,
Leningrad.

(Chlorophyll)

(Extraction (Chemistry))

CHERNOVSKIY, S.A.

Effect of ultrasonic vibrations on the extractability of chlorophyll from plant leaves by nonpolar solvents. Bot. zhur. 45 no.11:1696-1697 N '60. (MIRA 13:11)

1. Botanicheskiy institut imeni V.L.Komarova Akademii nauk SSSR, Leningrad.
(Plants, Effect of ultrasonic waves on)
(Chlorophyll) (Extraction (Chemistry))

CHERNOGORSKIY, S. A., Cand Bio Sci -- "Study of the ~~condi-~~
~~tion~~ of the chlorophyll-protein complex in the leaves of
higher plants." Len, 1961. (Acad Sci USSR. Bot Inst im
V. L. Komarov) (KL, 8-61, 239).

-178-
- 227 -

CHERNOMORSKIY, S.A.

Effect of ultraviolet rays on the extract ability of chlorophyll
from leaves by petroleum ether. Biofizika 6 no. 2:242-243 '61.
(MIRA 14:4)

1. Botanicheskiy institut AN SSSR, Leningrad.
(CHLOROPHYLL)
(PLANTS, EFFECT OF ULTRAVIOLET RAYS ON)
(EXTRACTION (CHEMISTRY))

CHERNOMORSKIY, S.A.; MUKHINA, V.A.

State of chlorophyll in leaves as related to the geographical origin
of plants. Bot. zhur. 46 no. 5:683-685 My '61. (MIRA 14:7)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(Chlorophyll)

SAPOZHNIKOV, D.I.; MASLOVA, T.G.; BAZHANOVA, N.V.; POPOVA, O.F.;
CHERNOGORSKIY, S.A.; SHIRYAYEVA, G.A.

State of pigments in leaves. Trudy Bot. inst. Ser. 4 no.15:
53-67 '62. (MIRA 15:7)
(Chlorophyll) (Carotenoids)

DADYKIN, V.P.; CHERNOMORSKIY, S.A.; POTAYEVICH, Ye.V.

Correlation between the absorption of radiant enemy and the
pigment content in the suspension of Chlorella. Bot. zhur.
49 no.3:398-403 Mr '64. (MIRA 17:3)

1. Karelskiy filial AN SSSR, Petrozavodsk.

KOSHLEKOVA, N.G.; ROMANOVA, L.V.; FALK, Ye.Yu.; CHERNOMORSKIY, S.A.

Effect of the γ -ray treatment of sunflower seeds on their storage capacity. Prikl. biokhim. i mikrobiol. i no.48471-473 Sl-Ag '65. (MIRA 1B:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhit'ev, Moskva.

I 24737-66 EWT(1)/ELT(m)/EFF(n)-2/T JK/GG
Acc N# AP6015522

SOURCE CODE: UR/0411/65/001/004/0471/0473

AUTHOR: Koshlakova, K. G.; Romanova, L. V.; Fal'k, Ye. Yu.; Chernomorskiy, S. A.

ORG: All-Union Scientific Research Institute of Fats (Vsesoyuznyy nauchno-
issledovatel'skiy institut zhirov)

TITLE: Effect of gamma irradiation on the storage of sunflower seeds

SOURCE: Prikladnaya biokhimiya i mikrobiologiya, v. 1, no. 4, 1965, 471-473

TOPIC TAGS: fungus, radiation plant effect, bacteria, gamma irradiation

ABSTRACT: The results of the experiments reported showed that 300,000 r was the minimum lethal dose for molds. However, despite the sharp decrease in quantity of molds and bacteria¹⁹ on the seeds after exposure, the number of microorganisms increased markedly on moist seeds stored under nonsterile conditions, although it was less than in the control samples. Seed respiration immediately after exposure was more intense than in the control. With an increase in the duration of storage and a moisture content of 15-20%, the intensity of respiration and acid number of oil in the seeds increased along with the number of microorganisms on the seeds. In these respects the irradiated seeds were not appreciably superior to nonirradiated seeds.

The content of peroxide compounds also rose after irradiation. Exposure of sunflower seeds moistened about 13% to 300,000 and 1,000,000 r increased the peroxide number 5-7 fold. After 3 days of storage, respiration of the irradiated seeds was much less intense than that of the control. However,

Card 1/2

UDC: 633.854.78+665.347.8

I 24737-66

ACC NR: AP6015522

after 6 days of storage, respiration intensity was the same in both the experimental and the control seeds. This resulted in an increase in the number of bacteria and molds on the irradiated seeds.

The authors concluded that exposure of moist seeds to gamma rays does not prevent them from spoiling if kept under nonsterile conditions. Moreover, ionizing radiation impairs the quality of the oil obtained from the treated seeds. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: 13Mar65 / ORIG REF: 008 / OTH REF: 002

Card 2/2 MGS